12/08/04

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

12/08/04

FILE 'HOME' ENTERED AT 18:18:45 ON 20 AUG 2004

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 18:18:54 ON 20 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9
DICTIONARY FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9

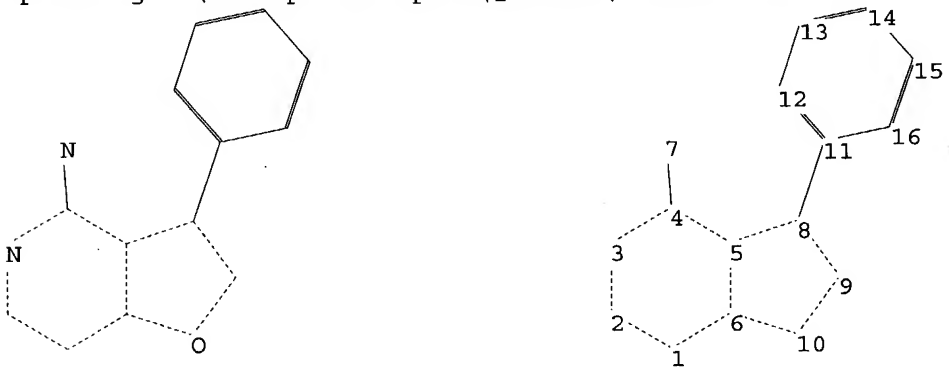
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str



chain nodes :
7
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16
chain bonds :
4-7 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14
14-15 15-16
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10
exact bonds :

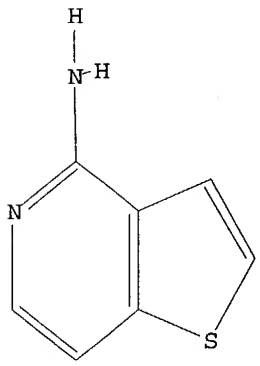
12/08/04

8-11
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 18:19:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 232 TO ITERATE

100.0% PROCESSED 232 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3727 TO 5553
PROJECTED ANSWERS: 44 TO 476

L2 13 SEA SSS SAM L1

=> logoff y
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.42 0.63

STN INTERNATIONAL LOGOFF AT 18:19:39 ON 20 AUG 2004

Connecting via Winsock to STN

10/626092

12/08/04

Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS	4	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	5	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS	6	SEP 27	STANDARDS will no longer be available on STN
NEWS	7	SEP 27	SWETSCAN will no longer be available on STN
NEWS	8	OCT 28	KOREAPAT now available on STN
NEWS	9	NOV 18	Current-awareness alerts, saved answer sets, and current search transcripts to be affected by CERAB, COMPUAB, ELCOM, and SOLIDSTATE reloads
NEWS	10	NOV 30	PHAR reloaded with additional data
NEWS	11	DEC 01	LISA now available on STN

NEWS EXPRESS	OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:58:40 ON 08 DEC 2004

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:59:01 ON 08 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

12/08/04

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7
DICTIONARY FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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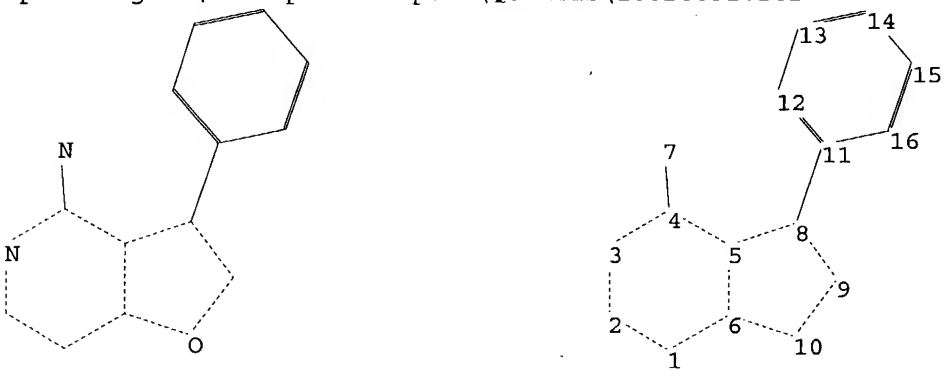
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str



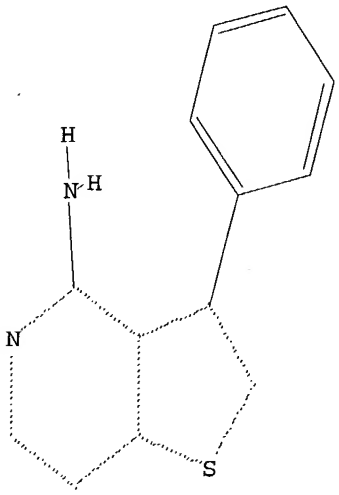
chain nodes :
7
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16
chain bonds :
4-7 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14 14-15 15-16
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10
exact bonds :
8-11
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

12/08/04

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:59:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 5 TO 234
PROJECTED ANSWERS: 0 TO 0

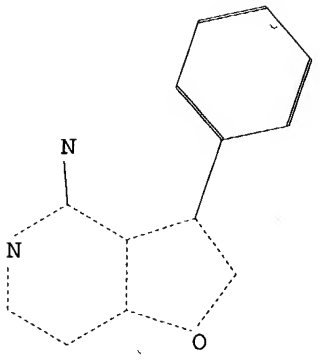
L2 0 SEA SSS SAM L1

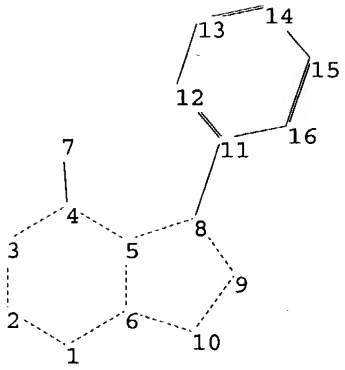
=> s l1 ful
FULL SEARCH INITIATED 12:59:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 126 TO ITERATE

100.0% PROCESSED 126 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str





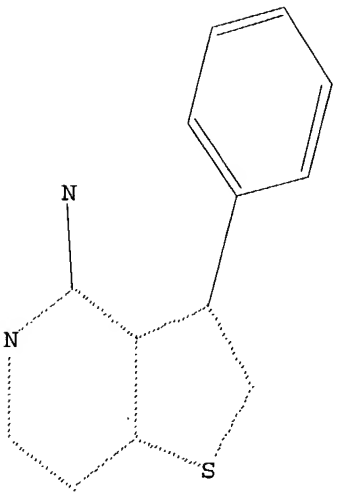
chain nodes :
7
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16
chain bonds :
4-7 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14
14-15 15-16
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10
exact bonds :
8-11
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR

12/08/04



Structure attributes must be viewed using STN Express query preparation.

```
=> s l4
SAMPLE SEARCH INITIATED 13:00:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      5 TO ITERATE

100.0% PROCESSED       5 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            5 TO      234
PROJECTED ANSWERS:               0 TO        0

L5             0 SEA SSS SAM L4

=> s l4 ful
FULL SEARCH INITIATED 13:00:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    126 TO ITERATE

100.0% PROCESSED     126 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L6             0 SEA SSS FUL L4

=> file registry
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   311.68     311.89

FILE 'REGISTRY' ENTERED AT 13:01:37 ON 08 DEC 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.
```

10/626092

12/08/04

STRUCTURE FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7
DICTIONARY FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7

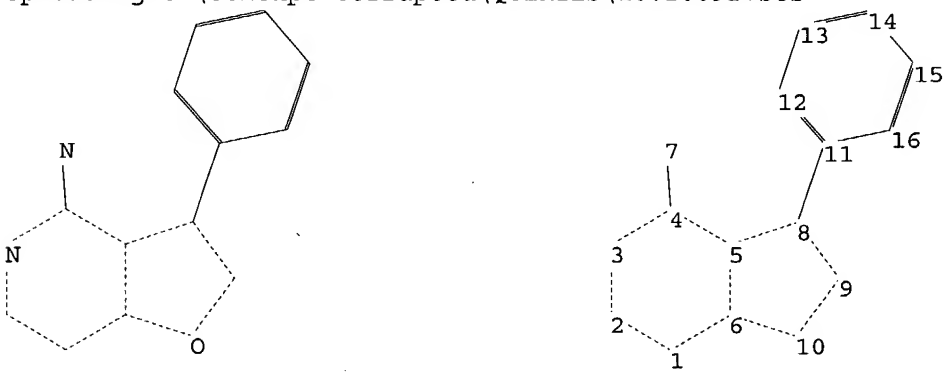
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10626092.str



chain nodes :
7
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16
chain bonds :
4-7 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 6-10 8-9 9-10 11-12 11-16 12-13 13-14 14-15 15-16
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-8 6-10 8-9 9-10
exact bonds :
8-11
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

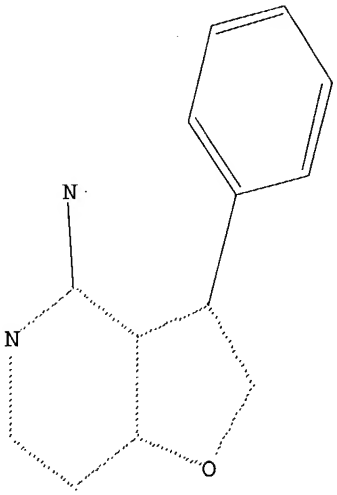
L7 STRUCTURE UPLOADED

=> d l7

10/626092

12/08/04

L7 HAS NO ANSWERS
L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 13:02:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 121 TO ITERATE

100.0% PROCESSED 121 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1761 TO 3079
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s l7 ful
FULL SEARCH INITIATED 13:02:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2827 TO ITERATE

100.0% PROCESSED 2827 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L7

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	156.26	468.15

STN INTERNATIONAL LOGOFF AT 13:03:15 ON 08 DEC 2004

=> d abs bib hitstr

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AB Benzofused heterocyclic analogs of the RXR selective modulator 2,3,5-F(CH2)3O(Me3C)2C6H2CMe:CHCH:CHCMe:CHCO2H (LG101506) were synthesized, and tested for their ability to bind RXRα and activate RXR homo and heterodimers. Potency and efficacy were observed to be dependent upon the choice of heterocycle as well as the side chain employed.

AN 2004:362555 CAPLUS
DN 141:106414

TI Design and synthesis of benzofused heterocyclic RXR modulators

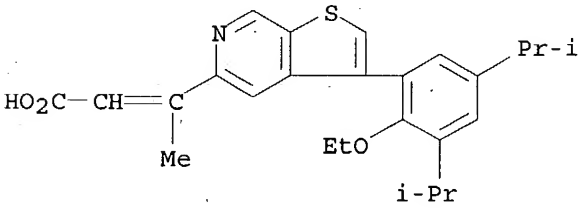
AU Gernert, D. L.; Neel, D. A.; Boehm, M. F.; Leibowitz, M. D.; Mais, D. A.; Michellys, P. Y.; Rungta, D.; Reifel-Miller, A.; Grese, T. A.
CS Department of Medicinal Chemistry, Ligand Pharmaceuticals, Incorporated, San Diego, CA, 92121, USA

SO Bioorganic & Medicinal Chemistry Letters (2004), 14(11), 2759-2763
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 141:106414

IT **460086-79-7P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of arylheterocyclylbutenoic acids as retinoid X receptor modulators)

RN 460086-79-7 CAPLUS

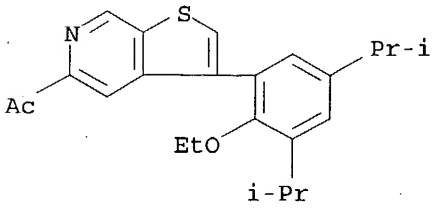
CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]- (9CI) (CA INDEX NAME)



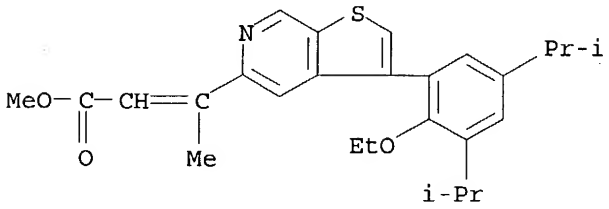
IT **460087-70-1P 460087-71-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylheterocyclylbutenoic acids as retinoid X receptor modulators)

RN 460087-70-1 CAPLUS

CN Ethanone, 1-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]- (9CI) (CA INDEX NAME)



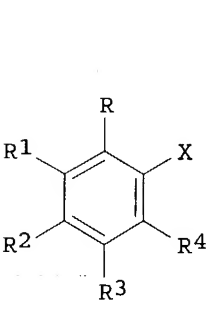
RN 460087-71-2 CAPLUS
CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)



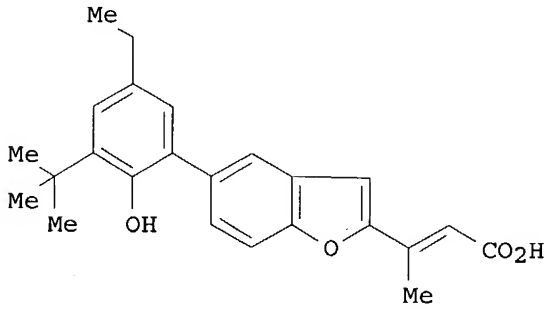
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d abs bib hitstr 2-3

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I



II

AB Retinoid X receptor modulators, such as I [X = A-C(R5):C(R6)COR16; R = H, halogen, alkyl, haloalkyl, alkenyl, alkynyl, alkoxy, etc.; R1, R2 = H, alkyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, etc.; R3 = H, alkyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, amino, etc.; R4 = H, halogen, aryl, alkyl, alkoxy, etc.; R5 = H, halogen, alkyl; R6 = H, halogen; R16 = OH, alkoxy, amino, etc; A = heteroaryl], were prepared for therapeutic use as retinoid X receptor modulators. Thus, acid II was prepared via five synthetic steps starting from 5-bromosalicylaldehyde, 5-Et-2-(MeOCH2O)-3-(CMe3)-C6H2-B(OH)2, ClCH2COMe, and tri-Et phosphonoacetate. The prepared compds. were evaluated for RXR:RAR antagonist activity and PPARα agonist activity.
AN 2002:715986 CAPLUS
DN 137:247598
TI Preparation of retinoid X receptor modulators
IN Gardinier, Kevin Matthew; Gernert, Douglas Linn; Grese, Timothy Alan; Neel, David Andrew; Mapes, Christopher M.; Michellys, Pierre-Yves; Boehm, Marcus F.
PA Eli Lilly and Company, USA; Ligand Pharmaceuticals Incorporated
SO PCT Int. Appl., 294 pp.

CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

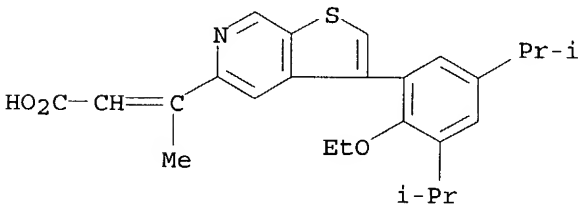
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002071827	A2	20020919	WO 2002-US8292	20020314
	WO 2002071827	A3	20030410		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2438586	AA	20020919	CA 2002-2438586	20020314
	EP 1373240	A2	20040102	EP 2002-728502	20020314
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004532194	T2	20041021	JP 2002-570800	20020314
	US 2004167160	A1	20040826	US 2004-471330	20040116
PRAI	US 2001-275885P	P	20010314		
	WO 2002-US8292	W	20020314		

OS MARPAT 137:247598

IT **460086-79-7P**
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of retinoid X receptor modulators for therapeutic use)

RN 460086-79-7 CAPLUS

CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]- (9CI) (CA INDEX NAME)

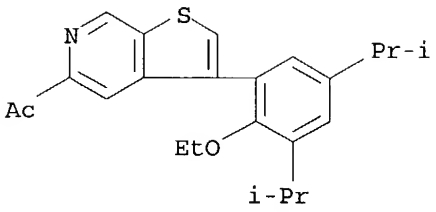


IT **460087-70-1P 460087-71-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of retinoid X receptor modulators for therapeutic use)

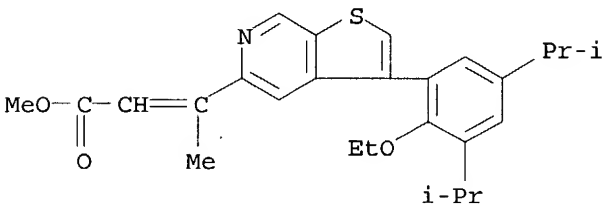
RN 460087-70-1 CAPLUS

CN Ethanone, 1-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]- (9CI) (CA INDEX NAME)

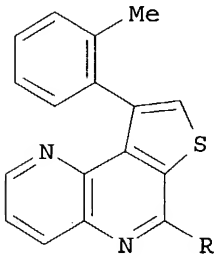
12/08/04



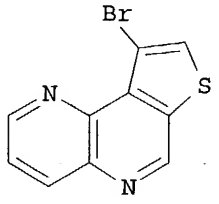
RN 460087-71-2 CAPLUS
CN 2-Butenoic acid, 3-[3-[2-ethoxy-3,5-bis(1-methylethyl)phenyl]thieno[2,3-c]pyridin-5-yl]-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
GI



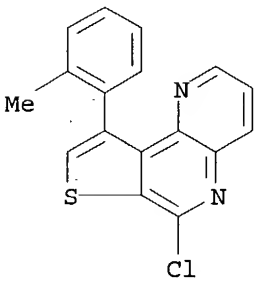
I ,



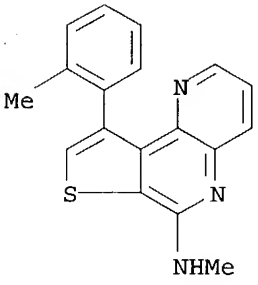
II

AB Seven title compds. I [R = NHMe, NMe2, NHEt, NH(CH2)nOH, 4-methylpiperazino; n = 2-4], substituted in the 4-position with different amino-containing groups have been prepared The reaction route to these compds. consisted of a palladium(0)-catalyzed cross-coupling between 1-bromothieno[2,3-c]-1,5-naphthyridine (II) and 2-MeC6H4SnMe3, oxidation of the 5-nitrogen, followed by treatment with thionyl chloride to give the 4-chloro derivative The compds. obtained after nucleophilic substitution were tested was regard to their effects on H+,K+-ATPase activity and on acid formation in gastric glands. However, the inhibitory potency in vitro of the substituted naphthyridines was not high enough to be of interest from a pharmacol. point of view.
AN 1996:380979 CAPLUS
DN 125:142606
TI 4-Substituted 1-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridines as possible reversible inhibitors of gastric H+,K+-ATPase
AU Bjoerk, P.; Hoernfeldt, A. B.; Gronowitz, S.; Edvardsson, U.
CS Org. Chem., Lund Univ., Lund, 221 00, Swed.
SO European Journal of Medicinal Chemistry (1996), 31(5), 411-416
CODEN: EJMCA5; ISSN: 0223-5234

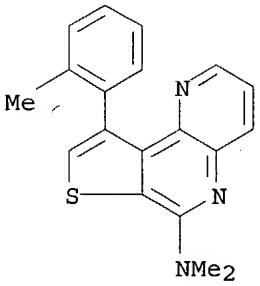
PB Elsevier
DT Journal
LA English
IT **180057-12-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation of amino-substituted (methylphenyl)thienonaphthyridines as reversible inhibitors of gastric ATPase)
RN 180057-12-9 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridine, 6-chloro-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)



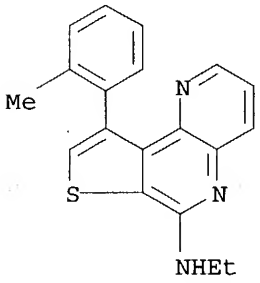
IT **180057-15-2P 180057-16-3P 180057-17-4P**
180057-18-5P 180057-19-6P 180057-20-9P
180057-21-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of amino-substituted (methylphenyl)thienonaphthyridines as reversible inhibitors of gastric ATPase)
RN 180057-15-2 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridin-6-amine, N-methyl-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)



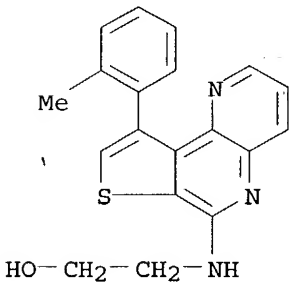
RN 180057-16-3 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridin-6-amine, N,N-dimethyl-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)



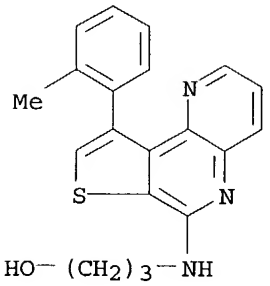
RN 180057-17-4 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridin-6-amine, N-ethyl-9-(2-methylphenyl)- (9CI) (CA INDEX NAME)



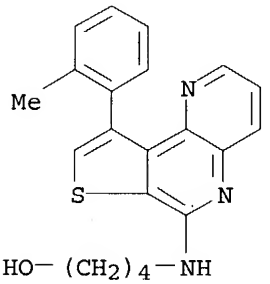
RN 180057-18-5 CAPLUS
CN Ethanol, 2-[[9-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridin-6-yl]amino]- (9CI) (CA INDEX NAME)



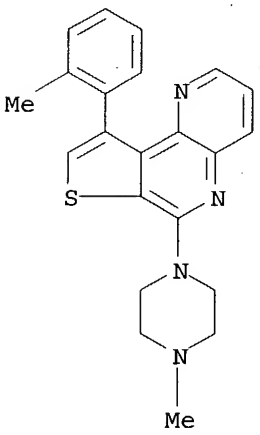
RN 180057-19-6 CAPLUS
CN 1-Propanol, 3-[[9-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridin-6-yl]amino]- (9CI) (CA INDEX NAME)



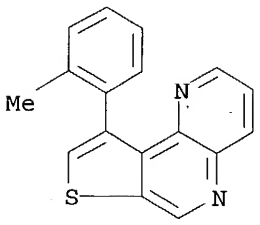
RN 180057-20-9 CAPLUS
CN 1-Butanol, 4-[[9-(2-methylphenyl)thieno[2,3-c]-1,5-naphthyridin-6-yl]amino]- (9CI) (CA INDEX NAME)



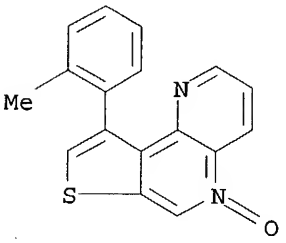
RN 180057-21-0 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridine, 9-(2-methylphenyl)-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



IT **180057-13-0P 180057-14-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of amino-substituted (methylphenyl)thienonaphthyridines as reversible inhibitors of gastric ATPase)
RN 180057-13-0 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridine, 9-(2-methylphenyl)- (9CI) (CA INDEX NAME)



RN 180057-14-1 CAPLUS
CN Thieno[2,3-c]-1,5-naphthyridine, 9-(2-methylphenyl)-, 5-oxide (9CI) (CA INDEX NAME)



12/08/04

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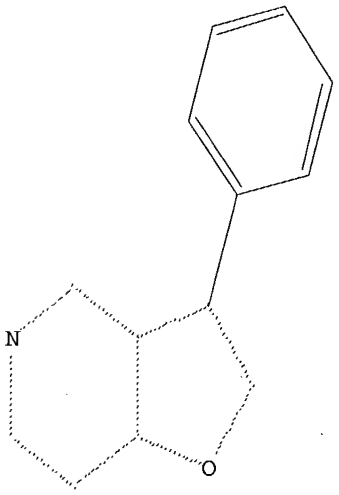


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Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SCREEN SEARCH COMPLETED -     91 TO ITERATE

100.0% PROCESSED      91 ITERATIONS                              3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1248 TO     2392
PROJECTED ANSWERS:               3 TO      163

L2             3 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 13:14:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1964 TO ITERATE

100.0% PROCESSED    1964 ITERATIONS                          100 ANSWERS
SEARCH TIME: 00.00.01

L3           100 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              155.42     155.63

FILE 'CAPLUS' ENTERED AT 13:14:40 ON 08 DEC 2004
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10/626092

12/08/04

FILE COVERS 1907 - 8 Dec 2004 VOL 141 ISS 24
FILE LAST UPDATED: 7 Dec 2004 (20041207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

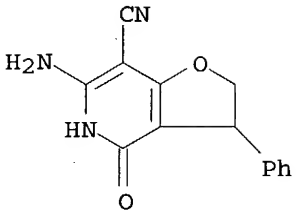
=> s l3
L4 11 L3

=> d abs bib fhitstr 1-11

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AB The reactions of 2-amino-4,5-dihydro-3-furancarboxamides with cyanomethylene compds. (such as alkyl cyanoacetates and malononitrile) gave the corresponding ring-opened products HOCHR2CHR1CH(CONH2)C(NH2):C(CN)CO2R3 (I, R1, R2 = H, Ph; R3 = Me, Et) and HOCHR2CHR1CH(CONH2)C(NH2):C(CN)2 (II, R1, R2 = H, Ph). I reacted with methanesulfonic acid to give the corresponding α-alkylidene-γ-butyrolactones. On the other hand, treatment of II with methanesulfonic acid yielded 3-pyridinecarbonitrile derivs.

AN 2004:734303 CAPLUS
DN 141:366085
TI Synthesis of α-alkylidene-γ-butyrolactones via ring-cleavage/recyclization of 2-amino-4,5-dihydro-3-furancarboxamides
AU Okabe, Fumi; Tagawa, Yoshinobu; Yamagata, Kenji
CS Faculty of Pharmaceutical Sciences, Fukuoka University, Fukuoka, 814-0180, Japan
SO Journal of Heterocyclic Chemistry (2004), 41(4), 505-508
CODEN: JHTCAD; ISSN: 0022-152X
PB HeteroCorporation
DT Journal
LA English
IT **778602-87-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of α-alkylidene-γ-butyrolactones via ring-cleavage/recyclization of 2-amino-4,5-dihydro-3-furancarboxamides)
RN 778602-87-2 CAPLUS
CN Furo[3,2-c]pyridine-7-carbonitrile, 6-amino-2,3,4,5-tetrahydro-4-oxo-3-phenyl- (9CI) (CA INDEX NAME)



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AB 11-Chloro-6H-[2]-benzopyrano-[4,3-c]quinolin-6-ones /4-chloro-2,3-diphenyl-furo[3,2-c]quinoline are obtained via the interaction of 6H-[2]-benzopyran [4,3-c]-quinoline-6,11-[12]-dione/ 2,3-diphenyl-furo[3,2-c]-quinolin-4-(5H)-one with a mixture of phosphorus pentachloride and phosphorus oxychloride. These chloro derivs. are further treated with sodium azide, o-phenylenediamine, anthranilic acid and benzoic acid hydrazide sep. to afford novel heterocyclic compds. 11-methyl-1,2,4-tetrazolo [1', 5', 1, 2] quinolino [4,3-c]-benzopyran-8-ones/ 8-methyl- 4,5-diphenyl-1,2,4-tetrazolo-[1',5':1,2]-furo[3,2-c]-quinolines, 13-methyl-imidazolo -[3',2':1,2]-quinolino-[4,3-c]-benzopyran-10-ones/ 10-methyl-6,7-diphenyl-imidazolo [3',2':1,2]-furo[3,2-c]-quinolines, 13-methyl-quinazilono-[3', 2', 1,2] quinolino [4,3-c]-benzopyran-10,16-diones/ 10-methyl-6,7-diphenyl-quinazilono [3', 2', 1,2]-furo[3,2-c]quinolin-13-ones, 11-methyl-1-phenyl-triazolo- [3',4':1,2]quinolino [4,3-c]-benzopyran-8-ones/ 8-methyl-1-phenyl-4,5-diphenyl-triazolo [3',4':1,2]furo-[3,2-c]-quinolines resp. Some of these compds. have also been screened for their biol. activity.

AN 2003:854934 CAPLUS

DN 140:287359

TI Synthesis of novel heterocyclic compounds from 6H-[2]-benzopyrano-[4,3-c]quinolin-6-one and 2,3-diphenyl furo-[3,2-c]-quinolin-4-(5H)-one

AU Mulwad, V. V.; Lohar, Manojkumar V.

CS Department of Chemistry, The Institute of Science, Mumbai, 400 032, India

SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2003), 42B(10), 2567-2572
CODEN: IJSBDB; ISSN: 0376-4699

PB National Institute of Science Communication

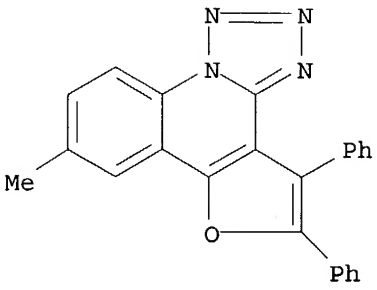
DT Journal

LA English

IT **675597-83-8P**
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of heterocyclic compds. from benzopyranoquinolinone and furoquinolinone derivs.)

RN 675597-83-8 CAPLUS

CN Furo[3,2-c]tetrazolo[1,5-a]quinoline, 7-methyl-10,11-diphenyl- (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AB The quinone methides generated in situ from 4-hydroxycoumarin or 4-hydroxy-6-methylpyrone and various aldehydes underwent facile reaction with cyclohexyl isocyanide to produce furocoumarins in good yields. Quinone methides from 4-hydroxy-1-methylquinolinone afforded furoquinolinones. The reaction presumably occurs via a [4+1] cycloaddn. followed by a [1,3] H shift.

AN 2002:175723 CAPLUS

DN 137:201243

TI A facile three-component reaction involving [4+1] cycloaddition leading to furan annulated heterocycles

AU Nair, Vijay; Menon, Rajeev S.; Vinod, A. U.; Viji, S.

CS Organic Chemistry Division, Regional Research Laboratory, Trivandrum, 695 019, India

SO Tetrahedron Letters (2002), 43(12), 2293-2295
CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

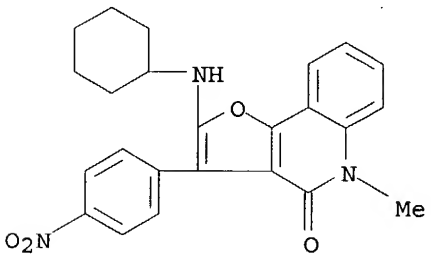
LA English

OS CASREACT 137:201243

IT **454479-59-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(three-component [4+1]cycloaddn. of hydroxypyranones or hydroxyquinolinones with aldehydes and isocyanide)

RN 454479-59-5 CAPLUS

CN Furo[3,2-c]quinolin-4(5H)-one, 2-(cyclohexylamino)-5-methyl-3-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

12/08/04

AB A series of cinnamoylfuroquinolines is described. These compds. were evaluated for their anti microbial activity. The starting materials, 2-methyl-3-benzoyl-4-hydroxy-2,8-dimethyl-3-benzoyl-4-hydroxyquinolines, are prepared in >80-90% yields under microwave irradiation (300 W) within 3 min in a domestic oven.

AN 2000:806044 CAPLUS

DN 134:100785

TI Facile synthesis of 2-cinnamoyl-4-methyl/4,6 dimethyl-3-phenylfuro[3,2-c]quinolines as marked antimicrobial agents

AU Reddy, Y. Thirupathi; Rao, M. Kanakalingeswara; Rajitha, B.

CS Department of Chemistry, Regional Engineering College, Warangal, India

SO Heterocyclic Communications (2000), 6(4), 351-356
CODEN: HCOMEX; ISSN: 0793-0283

PB Freund Publishing House Ltd.

DT Journal

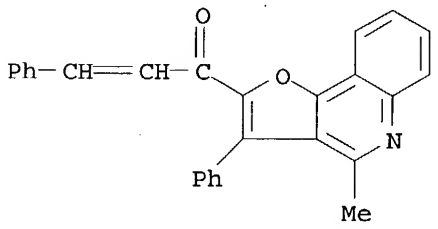
LA English

OS CASREACT 134:100785

IT **320410-98-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of cinnamoylfuroquinolines as antimicrobial agents)

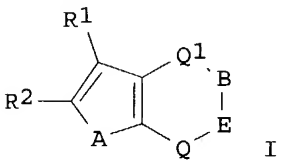
RN 320410-98-8 CAPLUS

CN 2-Propen-1-one, 1-(4-methyl-3-phenylfuro[3,2-c]quinolin-2-yl)-3-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

GI



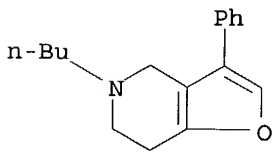
I

AB Title compds. [I; Q, Q1 = null, CH2; A = O, NR', SR'; B = O, NR', SR', CHR'; E = O, NR'', SR'', CHR'', (substituted) aralkyl; R', R'' = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, etc.; R1, R2 = H, alkyl, (substituted) aryl, heteroaryl, aralkyl, heteroarylalkyl], were prepared Thus, 2-[3-(1-butyl-4-piperidonyl)]-p-nitroacetophenone (preparation given) was refluxed 3 h in hydrochloric acid to give 35% 5-butyl-2-(4-nitrophenyl)-4,5,6,7-tetrahydrofuro[3,2-c]pyridine fumarate salt. The latter showed a potent dose-dependent rescue of differentiated PC12 cells with maximal

protection at 100 nM.
AN 2000:513701 CAPLUS
DN 133:120320
TI Preparation of furopyridines and related compounds with neurotrophic activity.
IN Peters, Dan; Gronborg, Mette; Moller, Arne
PA Neurosearch A/S, Den.
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000043397	A1	20000727	WO 2000-DK12	20000113
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1147113	A1	20000113	EP 2000-900497	20000113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2353903	AA	20000727	CA 2000-2353903	20000113
	JP 2002535334	T2	20021022	JP 2000-594813	20000113
	NZ 512289	A	20030630	NZ 2000-512289	20000113
	AU 776276	B2	20040902	AU 2000-30333	20000113
	US 2002013336	A1	20020131	US 2001-875019	20010607
	US 6576641	B2	20030610		
PRAI	DK 1999-61	A	19990119		
	WO 2000-DK12	W	20000113		

OS MARPAT 133:120320
IT **285547-56-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of furopyridines and related compds. with neurotrophic activity)
RN 285547-56-0 CAPLUS
CN Furo[3,2-c]pyridine, 5-butyl-4,5,6,7-tetrahydro-3-phenyl- (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

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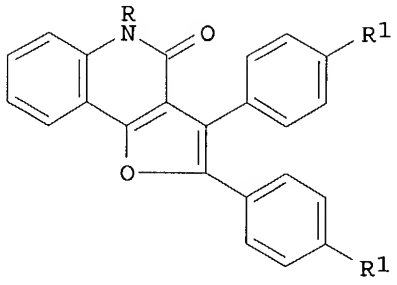


I

AB The condensation of 4-hydroxy-2-quinolones with benzoin and anisoin in presence of polyphosphoric acid gave 2,3-diarylfuro[3,2-c]quinoline-4-ones I (R = Me, Et, Ph; R1 = H, OMe).

AN 1996:512486 CAPLUS

DN 125:221743

TI An interesting reaction of N-substituted-4-hydroxy-2-quinolone with benzoins

AU Mulwad, V.V.; Suryanarayan, V.

CS Department of Organic Chemistry, Institute of Science, Bombay, 400 032, India

SO Indian Journal of Heterocyclic Chemistry (1996), 5(4), 321-322
CODEN: IJCHEI; ISSN: 0971-1627

PB Lucknow University, Dep. of Chemistry

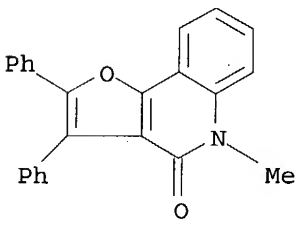
DT Journal

LA English

IT **180783-78-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of furoquinolinones from benzoins and hydroxyquinolinones)

RN 180783-78-2 CAPLUS

CN Furo[3,2-c]quinolin-4(5H)-one, 5-methyl-2,3-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

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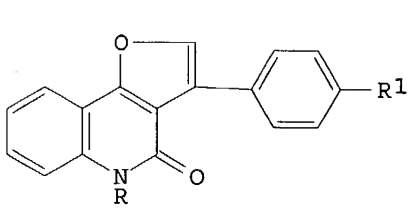

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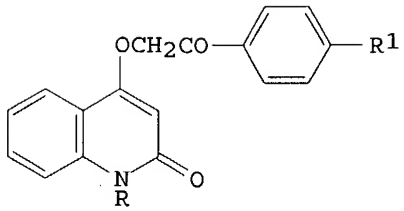


II

AB Title compds. I (R = Me, Ph; R1 = H, Me, Cl) were prepared in 41-56% yield by cyclodehydration of enol ethers II in polyphosphoric acid at 120°. II were obtained by phenacylation of 4-hydroxy-2(1H)-quinolinones.

AN 1990:216732 CAPLUS

DN 112:216732

TI A convenient synthesis of 3-aryl-4-oxo-4,5-dihydrofuro[3,2-c]quinolines

AU Rao, V. Sudhakar; Darbarwar, Malleshwar

CS Dep. Chem., Osmania Univ., Hyderabad, 500 007, India

SO Synthetic Communications (1989), 19(15), 2713-19
CODEN: SYNCAV; ISSN: 0039-7911

DT Journal

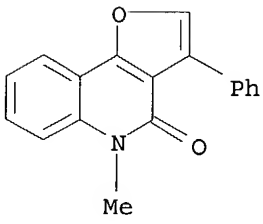
LA English

OS CASREACT 112:216732

IT **126936-76-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

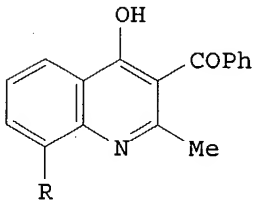
RN 126936-76-3 CAPLUS

CN Furo[3,2-c]quinolin-4(5H)-one, 5-methyl-3-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

GI



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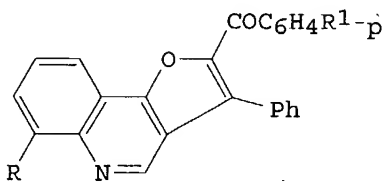
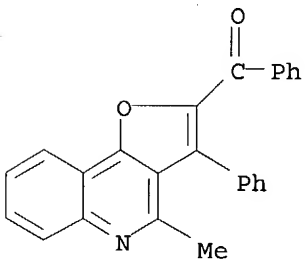


II

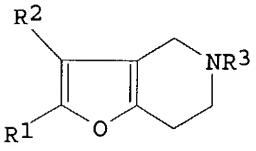
AB Cyclocondensation of 3-benzoyl-4-quinolinols I (R = H, Me) with p-R1C6H4COCH2Br (R1 = H, Ph, Cl, MeO) gives aroylfuroquinolines II.

Demethylation of II (R = H, Me; R1 = OMe) followed by substitution reactions with R2CHCH2Cl.HCl (R2 = Et2N, pyrrolidino, piperidino, morpholino) gives II (R = H, Me; R1 = OCH2CH2R2). II were tested for antifertility, analgesic, and antiinflammatory activity. II (R = H, R1 = OCH2CH2R2, R2 = pyrrolidino) shows higher antiinflammatory activity than aspirin.

AN 1988:21749 CAPLUS
DN 108:21749
TI Synthesis and biological activity of furoquinolines: 2-aroyl-4-methyl/4,6-dimethyl-3-phenylfuro[3,2-c]quinolines
AU Sharada, J.; Kumari, Y. Ratna; Rao, M. Kanakalingeswara
CS Dep. Chem., Reg. Eng. Coll., Warangal, 506 004, India
SO Indian Journal of Pharmaceutical Sciences (1987), 49(1), 17-21
CODEN: IJSIDW; ISSN: 0250-474X
DT Journal
LA English
OS CASREACT 108:21749
IT **111947-03-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antifertility, analgesic, and antiinflammatory activity of)
RN 111947-03-6 CAPLUS
CN Methanone, (4-methyl-3-phenylfuro[3,2-c]quinolin-2-yl)phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
GI



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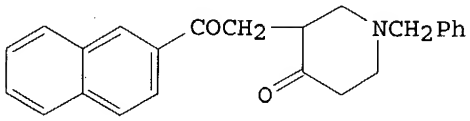


II

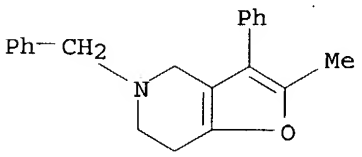
AB The title compds. [I; R1 = Me, naphthyl, (un)substituted Ph; R2 = H, Me, Ph; R3 = H, PhCH2] were prepared as antidepressants and antiischemics. Thus, 1-benzyl-4-piperidinone was condensed with pyrrolidine and the product enamine was alkylated with 2-bromo-1-(2-naphthyl)ethanone to give piperidinone II. This was cyclized by refluxing in concentrated HCl to give I (R1 = 2-naphthyl, R2 = H, R3 = CH2Ph). At 10-60 mg/kg i.p. I increased survival time of mice subjected to MgCl2-induced cardiac arrest.

AN 1986:591057 CAPLUS
DN 105:191057
TI Furo[3,2-c]pyridines and their therapeutic use

IN Wick, Alexander; Frost, Jonathan; Bertin, Jean
PA Synthelabo S. A. , Fr.
SO Fr. Demande, 21 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2570701	A1	19860328	FR 1984-14842	19840927
	FR 2570701	B1	19870522		
	EP 178201	A1	19860416	EP 1985-401732	19850906
	EP 178201	B1	19890201		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 40554	E	19890215	AT 1985-401732	19850906
	ES 547315	A1	19860316	ES 1985-547315	19850926
	DK 8504352	A	19860328	DK 1985-4352	19850926
	DK 158953	B	19900806		
	DK 158953	C	19910114		
	FI 8503719	A	19860328	FI 1985-3719	19850926
	FI 82054	B	19900928		
	FI 82054	C	19910110		
	NO 8503782	A	19860401	NO 1985-3782	19850926
	NO 162821	B	19891113		
	NO 162821	C	19900221		
	JP 61106577	A2	19860524	JP 1985-214460	19850926
	ZA 8507457	A	19860528	ZA 1985-7457	19850926
	HU 38945	A2	19860728	HU 1985-3694	19850926
	HU 192365	B	19870528		
	US 4661498	A	19870428	US 1985-780453	19850926
	CA 1291994	A1	19911112	CA 1985-491635	19850926
	AU 8547952	A1	19860410	AU 1985-47952	19850927
	AU 573390	B2	19880609		
	IL 76535	A1	19880831	IL 1985-76535	19850929
PRAI	FR 1984-14842	A	19840927		
	EP 1985-401732	A	19850906		

OS CASREACT 105:191057
IT **104916-03-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as antidepressant and antiischemic)
RN 104916-03-2 CAPLUS
CN Furo[3,2-c]pyridine, 4,5,6,7-tetrahydro-2-methyl-3-phenyl-5-(phenylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

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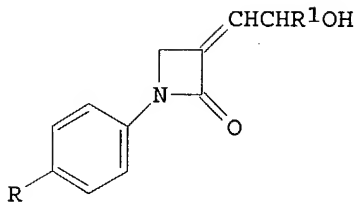
GI



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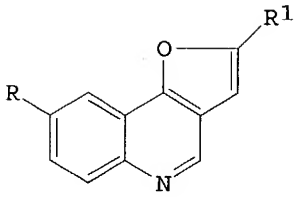


II

AB Refluxing arylazetidinones I (R = H, MeO; R1 = Me, Et) in F3CCO2H gave 55-60% furoquinolines II along with the corresponding 4,5-dihydro intermediates.

AN 1981:442950 CAPLUS

DN 95:42950

TI Formation of furo[3,2-c]quinoline derivatives through the Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones

AU Kano, Shinzo; Shibuya, Shiroshi; Ebata, Tsutomu

CS Tokyo Coll. Pharm., Tokyo, 192-03, Japan

SO Heterocycles (1981), 15(2), 1011-15
CODEN: HTCYAM; ISSN: 0385-5414

DT Journal

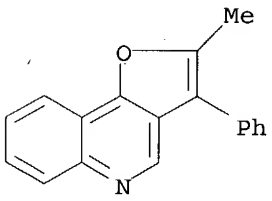
LA English

OS CASREACT 95:42950

IT **78225-32-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 78225-32-8 CAPLUS

CN Furo[3,2-c]quinoline, 2-methyl-3-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

GI For diagram(s), see printed CA Issue.

AB cf. CA 58, 11337d. Furan derivs. were prepared from Ph(HC.tplbond.C)CHOH and cyclic β-dicarbonyl compds. in the presence of concentrated H2SO4 or BF3-Et2O in glacial AcOH, 30 min. at 100°. Thus prepared were: 75% I, m. 268° (decomposition), from barbituric acid; 85% II, m. 147-8°, from 1,3-indandione; 67% III, m. 199°, from 4-hydroxycoumarin; 60% IV, m. 264°, from 4-hydroxycarbostyril.

AN 1963:415609 CAPLUS

DN 59:15609

OREF 59:2815f-h

TI Furans and pyrans. IV. Preparation of condensed furan derivatives

AU Reisch, J.

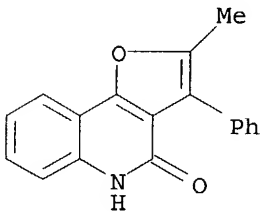
CS Univ. Muenster, Germany

SO Angew. Chem. (1962), 74(20), 783

10/626092

12/08/04

DT Journal
LA Unavailable
IT **88893-96-3**, Furo[3,2-c]quinolin-4(5H)-one, 2-methyl-3-phenyl-
(preparation of)
RN 88893-96-3 CAPLUS
CN Furo[3,2-c]quinolin-4(5H)-one, 2-methyl-3-phenyl- (7CI) (CA INDEX NAME)



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FULL ESTIMATED COST	53.24	208.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.70	-7.70

FILE 'REGISTRY' ENTERED AT 13:15:58 ON 08 DEC 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7
DICTIONARY FILE UPDATES: 6 DEC 2004 HIGHEST RN 793637-73-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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L5 STRUCTURE UPLOADED

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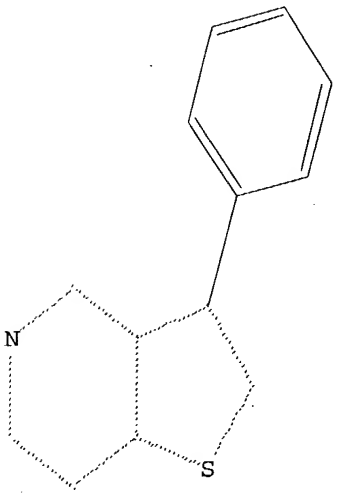
12/08/04

L5 STR



Structure attributes must be viewed using STN Express query preparation.

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CA SUBSCRIBER PRICE	0.00	-7.70

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

12/08/04

FILE COVERS 1907 - 8 Dec 2004 VOL 141 ISS 24
FILE LAST UPDATED: 7 Dec 2004 (20041207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
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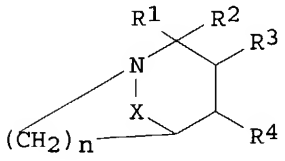

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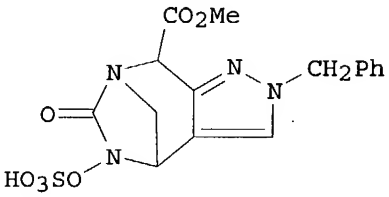
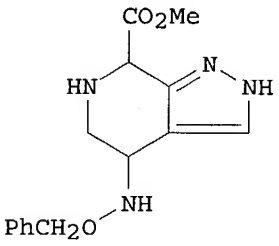


II



III

AB Title compds. I [wherein R1 = H, COOH, CN, COOR, (un)substituted CONH2, C(:NH)NH2, (CH2)mR5; R = (un)substituted alkyl, (CH2)alkenyl, aryl, arylalkyl; R5 = COOH and derivs., CN, OH, NH2 and derivs., OH and derivs.; m = 1-2; R3CCR4 = (un)substituted Ph, 5-6 membered heterocyclyl; or R4 = H, (CH2)n1R5; n1 = 0-2; and R1CCR3 = (un)substituted Ph, 5-6 membered heterocyclyl; R2 = H, halo, R, OR, NHCOR, etc.; X = -C(:O)-B-; B = -O(CH2)n2-, -NH-O- and derivs., -NH-(CH2)n2- and derivs.; n2 = 0-1; n = 1-2; and their pharmaceutically acceptable salts] were prepared as inhibitors for beta-lactamases produced by pathogenic bacteria. For example, trans-II•TEA (i.e., exo isomer) was prepared by carbonylation of aminopyridine III with diphosgene in the presence of MeCN/TEA, alkylation with benzyl bromide, OBn deprotection and sulfonation with pyridine-SO3. II exhibited IC50 values of 3 nM and 5 nM for inhibition of β-lactamases Tem-1 and P99, resp. In tests against various resistant strains of, e.g., S. aureus, selected I exhibited MIC values in the range

of 0.3-40 μg/mL. Thus, pharmaceutical compns. of I and β-lactamine antibiotics are useful for treatment of bacterial infections.

AN 2004:472092 CAPLUS
DN 141:38636
TI Preparation of fused-ring diazepines as anti-bacterial drugs and inhibitors of beta-lactamases
IN Lampilas, Maxime; Musicki, Branislav; Klich, Michel; Rowlands, David Alan
PA Aventis Pharma Sa, Fr.
SO Fr. Demande, 185 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2004052891	A1	20040624	WO 2003-FR3523	20031128
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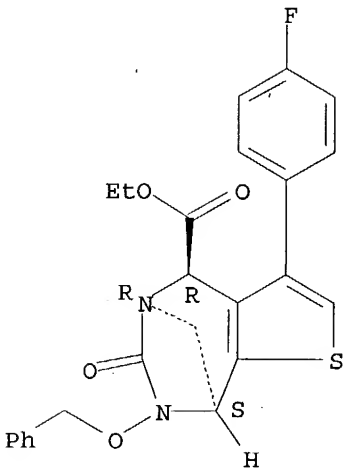
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004157826	A1	20040812	US 2003-727911	20031204
PRAI	FR 2002-15428	A	20021206		
	US 2003-484323P	P	20030702		

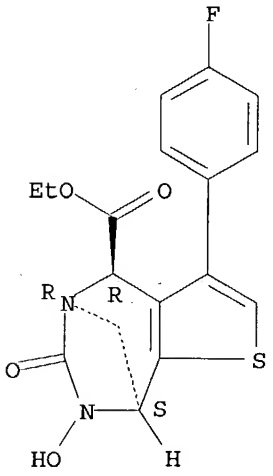
OS MARPAT 141:38636
IT **704200-35-1P**, Ethyl trans-3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(phenylmethoxy)-5,8-methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylate **704200-36-2P**, trans-Ethyl 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-7-hydroxy-6-oxo-5,8-methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of fused-ring diazepines as inhibitors of β-lactamases)
RN 704200-35-1 CAPLUS
CN 5,8-Methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylic acid, 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(phenylmethoxy)-, ethyl ester, (4R,5R,8S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



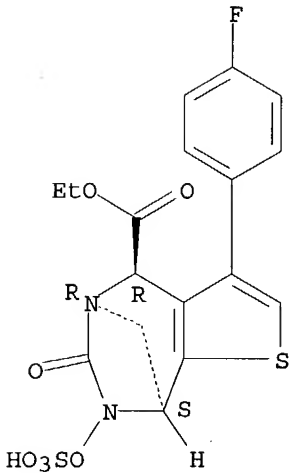
RN 704200-36-2 CAPLUS
CN 5,8-Methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylic acid, 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-7-hydroxy-6-oxo-, ethyl ester, (4R,5R,8S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **704200-25-9P**, trans-Ethyl 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(sulfooxy)-5,8-methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylate sodium salt
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(β-lactamases inhibitor; preparation of fused-ring diazepines as inhibitors of β-lactamases)
RN 704200-25-9 CAPLUS
CN 5,8-Methano-5H-thieno[2,3-e][1,3]diazepine-4-carboxylic acid, 3-(4-fluorophenyl)-4,6,7,8-tetrahydro-6-oxo-7-(sulfooxy)-, 4-ethyl ester, sodium salt, (4R,5R,8S)-rel- (9CI) (CA INDEX NAME)

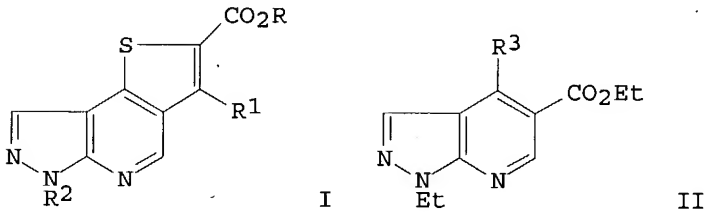
Relative stereochemistry.



● Na

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I II

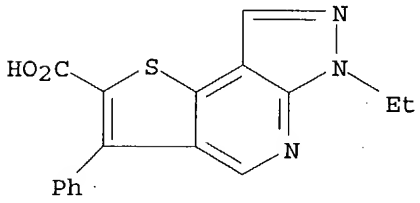
AB About 10 pyrazolothienopyridines I (R, R2 = H, Et; R1 = OH, OEt, BuNH, H2NNH, Ph), useful as inflammation inhibitors, central nervous system depressants, and with an ability to increase the intracellular concentration of adenosine-3',5'-cyclic monophosphate and therefore useful in alleviating the symptoms of asthma (dosages given but not activity), were prepared Thus, 1-ethyl-5-aminopyrazole was heated with EtOCH:C(CO2Et)2 at 120° for 2 hr and the product was cyclized by heating in Ph2O at 235-50° to give II (R3 = OH). This was converted to II (R3 = Cl) and then treated with HSCH2CO2Et in DMF containing Et3N to give II (R3 = EtO2CCH2S), which on heating with NaH in dioxane at reflux cyclized to I (R = R2 = Et; R1 = OH).

AN 1976:446662 CAPLUS
DN 85:46662
TI Derivatives of pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acids
IN Denzel, Theodor; Hoehn, Hans
PA E. R. Squibb and Sons, Inc., USA
SO U.S., 8 pp. Division of U.S. 3,887,570.

CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3928362	A	19751223	US 1975-551810	19750221
	US 3887570	A	19750603	US 1973-401798	19730928
	CA 1050027	A1	19790306	CA 1974-208888	19740910
	GB 1479778	A	19770713	GB 1974-40030	19740913
	FR 2246271	A1	19750502	FR 1974-32707	19740927
	JP 50059395	A2	19750522	JP 1974-112220	19740928
PRAI	US 1973-401798		19730928		

IT **56200-46-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
RN 56200-46-5 CAPLUS
CN 6H-Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acid, 6-ethyl-3-phenyl- (9CI) (CA INDEX NAME)



RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of

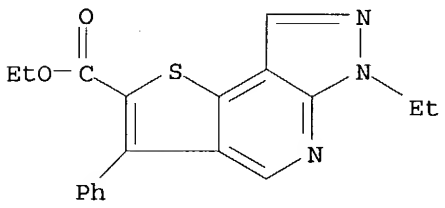
L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
GI For diagram(s), see printed CA Issue.
AB Tranquilizing antiinflammatory (no data) acids I (R = H, R1 = OEt, Ph; R = Et, R1 = NHBu, NHN:CMe2) were prepared Thus, II (R2 = H) was treated with EtOCH:C(CO2Et)2, II [R2 = CH:C(CO2Et)2] cyclized, III (R3 = OH) chlorinated and treated with HSCH2CO2Et, III (R3 = SCH2CO2Et) cyclized with base, I (R = Et, R1 = OH) treated with EtI, and I (R = Et, R1 = OEt) hydrolyzed to I (R = H, R1 = OEt).
AN 1975:458814 CAPLUS
DN 83:58814
TI Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acids and esters
IN Denzel, Theodor
PA Chemische Fabrik von Heyden G.m.b.H., Fed. Rep. Ger.
SO Ger. Offen., 28 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2446495	A1	19750410	DE 1974-2446495	19740928
	US 3887570	A	19750603	US 1973-401798	19730928
	CA 1050027	A1	19790306	CA 1974-208888	19740910
	GB 1479778	A	19770713	GB 1974-40030	19740913
	FR 2246271	A1	19750502	FR 1974-32707	19740927

JP 50059395 A2 19750522 JP 1974-112220 19740928
PRAI US 1973-401798 19730928

IT **56200-45-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

RN 56200-45-4 CAPLUS
CN 6H-Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acid, 6-ethyl-3-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



IT **56200-46-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 56200-46-5 CAPLUS
CN 6H-Pyrazolo[3,4-b]thieno[2,3-d]pyridine-2-carboxylic acid, 6-ethyl-3-phenyl- (9CI) (CA INDEX NAME)